

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

Complete if Known **407540871**

(Use as many sheets as necessary)

Sheet 1 of 1

Application Number	(Natl. Phase of PCT/IB03/06227)
Filing Date	(Herewith)
First Named Inventor	Kazunari TAKENAKA
Art Unit	(Unassigned)
Examiner Name	(Unassigned)
Attorney Docket Number	10517/279

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)				
JB	1	JP-05-296103	11/09/93	NISSAN MOTOR CO LTD		
	2	JP-63-98465	06/25/88			
	3	JP-61-076149	05/22/86			
	4	DE-44 08 137	09/14/95	BMW AG		
	5	GB 2 141 783	01/03/85	UK ATOMIC ENERGY AUTHORITY		
	6	EP-04 017 759	01/22/92	NISSAN MOTOR CO LTD		
	7	DE-41 19 594	02/25/93	AUDI AG		

**Examiner
Signature**

Date Considered

8/21/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Error Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. #496899

0/540871

JC17 Rec'd PCT/PTO 27 JUN 2005

List of Related Art for IDS

Our Ref. No.

TFN030155-US

Client No.

TSN2003-253-US-00

Japanese Patent/Utility Publication	File Date	Publication Date	Comments
JP-A-No.05-296103	Apr. 15, 1992	Nov. 9, 1993	Cited as a related art in the Specification
JP-U-No.63-98465	Dec. 15, 1986	Jun. 25, 1988	Cited as a related art in the Specification
JP-U-No.61-76149	Oct. 25, 1984	May 22, 1986	Cited as a related art in the Specification
US Patent	File Date	Patent Date	
4,930,470	Jan.9, 1989	Jun. 5, 1990	Cited in the International Search Report
4,848,292	Apr. 27, 1988	Jul. 18, 1989	Cited in the International Search Report
2,622,579	Jan.9, 1948	Dec. 23, 1952	Cited in the International Search Report
The other foreign patent documents			
DE 44 08 137 A1	Mar. 10, 1994	Sep. 14, 1995	Cited in the International Search Report
GB 2 141 783 A	May 18, 1984	Jan. 3, 1985	Cited in the International Search Report
EP 04 017 759	May 7, 1990	Jan. 22, 1992	Cited in the International Search Report
DE 41 19 594 A1	Jun. 14, 1991	Feb. 25, 1993	Cited in the International Search Report

LAB

8/21/06

Substitute for form 1449/APTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	10/540,871
Filing Date	June 27, 2005
First Named Inventor	Kazunari Takenaka, et al.
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	10517-279

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Japanese Official Action and Partial English Translation thereof

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AB		JPA 2001-164988	6-19-2001	Hiroyuki et al.		X (Abstract)
JB		JPU 60-159854	10-24-1985			
JB		JPA 4-17759	1-22-1992	Kyugo		X (Abstract)

Examiner
SignatureDate
Considered

8/21/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P28019Application No.
10/540,564INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
Shigeki NOMURA et al.Filing Date
June 24, 2005Group
Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	4 3 3 0 6 5 4	05/18/82	EZZELL et al.			
JB	5 4 4 9 6 9 7	09/12/95	NOAKI et al.			
JB	5 9 8 5 4 7 7	11/16/99	IWASAKI et al.			
JB	6 0 8 7 0 3 1	07/11/00	IWASAKI et al.			
JB	6 2 4 2 1 3 5	06/05/01	MUSHIAKE et al.			
JB	5 6 8 2 2 6 1	10/28/97	TAKADA et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JB	2002 - 1 8 4 4 2 7	06/28/02	JAPAN			
JB	2003 - 3 3 1 6 4 4	11/21/03	JAPAN			
JB	4 - 3 6 6 1 3 7	12/18/92	JAPAN			
JB	6 - 3 4 2 6 6 5	12/13/94	JAPAN			
JB	9 - 1 1 0 9 8 2	04/28/97	JAPAN			
JB	10 - 2 1 9 4 3	01/23/98	JAPAN			
JB	10 - 4 5 9 1 3	02/17/98	JAPAN			
JB	9 - 8 7 5 1 0	03/31/97	JAPAN			
JB	8 - 2 4 9 9 2 3	09/27/96	JAPAN			
JB	10 - 6 8 9 1 7	03/10/98	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JB	1	English Language Abstract of JP 2002-184427.
JB	2	English Language Abstract of JP 2003-331644.
JB	3	English Language Abstract of JP 4-366137.
JB	4	English Language Abstract of JP 9-110982.
JB	5	English Language Abstract of JP 9-87510.
JB	6	Tatsumisago M., et al. "Proton-Conducting Silica-gel Films Doped With a Variety of Electroytes" Solid State Ionics, 1994, <u>74</u> , 105-108.
JB	6	English Language Abstract of JP 10-68917.
JB	7	Gautier-Luneau I., et al. "Organic-Inorganic Protonic Polymer Electrolytes as Membrane for Low-Temperature Fuel Cell" Electrochimica Acta, 1992, <u>37</u> (9), 1615-1618.
JB	8	Sanchez J.-Y., et al. "Poly(benzylsulfonic acid)siloxane as Proto-conducting Electrolyte" Polymers for Advanced Technologies, 1993, <u>4</u> , 99-105.
JB	9	Slade R.C.T., Varcoe J.R. "Proton Conductivity in Siloxane and Ormosil Ionomers Prepared Using Mild Sulfonation Methodologies" Solid State Ionics, 2001, <u>145</u> , 127-133.

EXAMINER

DATE CONSIDERED

8/21/05

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P28019Application No.
10/540,564INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Shigeki NOMURA et al.Filing Date
June 24, 2005Group
Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JB	2004 0 0 6 2 9 7 0	04/01/04	NOMURA et al.	1	1	
JB	5 9 0 2 8 4 7	05/11/99	YANAGI et al.	1	1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JB	03 / 0 4 1 0 9 1	05/15/03	W.I.P.O			
JB	9 - 4 0 9 1 1	02/10/97	JAPAN			
JB	8 - 1 3 4 2 1 9	05/28/96	JAPAN			
JB	2002 - 3 0 1 4 9	01/31/02	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JB	10	Mikhailenko S., et al. "Solid Electrolyte Properties of Sulfonic Acid Functionalized Mesostructured Porous Silica" Microporous and Mesoporous Materials, 2002, <u>52</u> , 29-37.
↑	11	Depre L., et al. "Inorganic-Organic Proton Conductors Based on Alkylsulfone Functionalities and Their Patterning by Photoinduced Methods" Electrochimica Acta, 1998, <u>43</u> (10-11), 1301-1306.
	12	Depre L., et al. "Proton Conducting Sulfon/Sulfonamide Functionalized Materials Based on Inorganic-Organic Matrices" Electrochimica Acta, 2000, <u>45</u> , 1377-1383.
	13	English Language Abstract of JP 9-40911.
	14	Abe Y., et al. "Preparations and Properties of Flexible Thin Films by Acid-Catalyzed Hydrolytic Polycondensation of Methyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, 1995, <u>33</u> , 751-754.
↓	15	Takamura N., et al. "Preparation and Properties of Polysilsesquioxanes: Polysilsesquioxanes and Flexible Thin Films by Acid-Catalyzed Controlled Hydrolytic Polycondensation of Methyl- and Vinyltrimethoxysilane" Journal of Polymer Science: Part A: Polymer Chemistry, 1999, <u>37</u> , 1017-1026.
	16	English Language Abstract of JP 8-134219.
JB	17	English Language Abstract of JP 2002-30149.

EXAMINER

JB

DATE CONSIDERED

8/21/06

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.